



State of Utah

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Environmental Quality

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DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

M/035/0002
Incoming

APR 13 2015

Mr. Steve Schnoor
Manager - Environment
Rio Tinto Kennecott 4700 Daybreak Parkway
South Jordan, UT 84095

Subject: **Construction Permit** for RTK South End Drainage Collection System

Dear Mr. Schnoor:

On November 21, 2014, the Division of Water Quality (DWQ) received the engineering plans and specifications for the South End Drainage Collection System prepared by URS and stamped by Thomas C. Wright, III Utah Certified Professional Engineer. This project requires new cut-off walls and associated detention basins in the Olsen, Butterfield 1 and Yosemite drainages. The relocation and construction of new cut-off walls require a modification to the Utah Groundwater Discharge Permit No. UGW350010. These changes were made during the renewal process of that Permit. Therefore, this Construction Permit is being issued at the same time as the UGW350010 Permit Renewal.

The following is a summary of the proposed major construction projects for this Construction Permit for the Olsen, Butterfield 1 and Yosemite drainages:

- Creation of drainage basins to help control the flood events for a 25 and 100 year 24 hour storm event;
- Placement of overflow weirs, permeable rock weirs, inlet and outlet structures, and piping systems to help meter flow events through the drainage system; and
- Construction of new (replacement) concrete cut-off walls.

The plans and specifications, as submitted, comply with *the Utah Water Quality Rules, (R317, Utah Administrative Code)*. A **Construction Permit** is hereby issued as constituted by this letter, subject to the following conditions:

1. *Any revisions or modifications to the approved plans and specifications must be submitted to DWQ for review and approval, before construction or implementation thereof. Please submit any changes for review and approval directly to Woodrow Campbell, P.E., of the DWQ Ground Water Protection Section.*
2. *A written operations and maintenance manual, containing a description of the functioning of the facilities, an outline of routine maintenance procedures, and all checklists and maintenance logs needed for proper operation of the system, must be submitted and approved before the final inspection and operation of the system.*

195 North 1950 West • Salt Lake City, UT
Mailing Address: P.O. Box 144870 • Salt Lake City, UT 84114-4870
Telephone (801) 536-4300 • Fax (801) 536-4301 • T.D.D. (801) 536-4414

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- 3. The approved facilities must not be placed in service unless DWQ has conducted a final inspection, reviewed and approved the As-Built Construction Certification Report, and provided written authorization to place the constructed facilities in service.*

The plans and specifications for this project have been stamped and signed by a Professional Engineer currently licensed to practice in the state of Utah. The construction design, inspection supervision, and written construction certification of all work associated with this Construction Permit must be performed by a Professional Engineer licensed to practice in the state of Utah.

This Construction Permit will expire one year from the date of its issuance, as evidenced by the date of this letter, unless substantial progress is made in constructing the approved facilities or the plans and specifications have been resubmitted and the construction permit is reissued. This permit does not relieve you, in any way, of your obligations to comply with other applicable local requirements.

Please contact Mr. Campbell at the beginning of construction to allow periodic inspections to be scheduled. Upon completion of the project, a final inspection and approval of the As-Built Construction Certification Report is required before the approval to operate the completed facilities can be issued. Please remain in contact with Mr. Campbell to schedule the final inspection. The Construction Certification Report with final as-built drawings must include test results for the following construction quality assurance and quality control (CQA/QC) elements:

Soil Subgrade

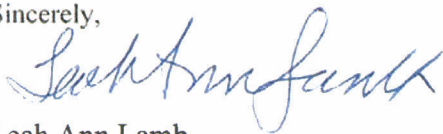
- Proctor Curves,
- Soil Classification,
- Field Compaction Testing, and
- Subgrade Acceptance Certification.

Concrete

- Concrete Mix Verification,
- Concrete ASTM Testing Method, Frequency, and Results,
- Concrete Testing Pass/Fail Criteria, and
- Crack Inspection and Repair.

If we can be of further assistance, please contact Mr. Woodrow Campbell at wwcampbell@utah.gov or (801) 536-4353.

Sincerely,



Leah Ann Lamb
Acting Director

WLB/WWC/DJH/nf

cc: URS, Thomas Wright (w/o encl.)
Doug Bacon, DERR (via e-mail, w/o encl.)
Kerri Fiedler, Region 8 USEPA (via e-mail, w/o encl.)
Leslie Hepler, DOGM (via e-mail, w/o encl.)

DWQ-2015-001495